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California Institute of Technology

Eclipses in our Solar System

University School of Nashville

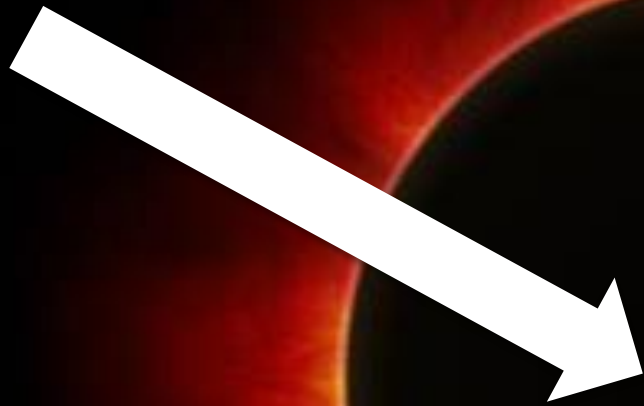


Bekah Sosland Siegfriedt
Mars Rover Operator



Our Moon

Our Sun

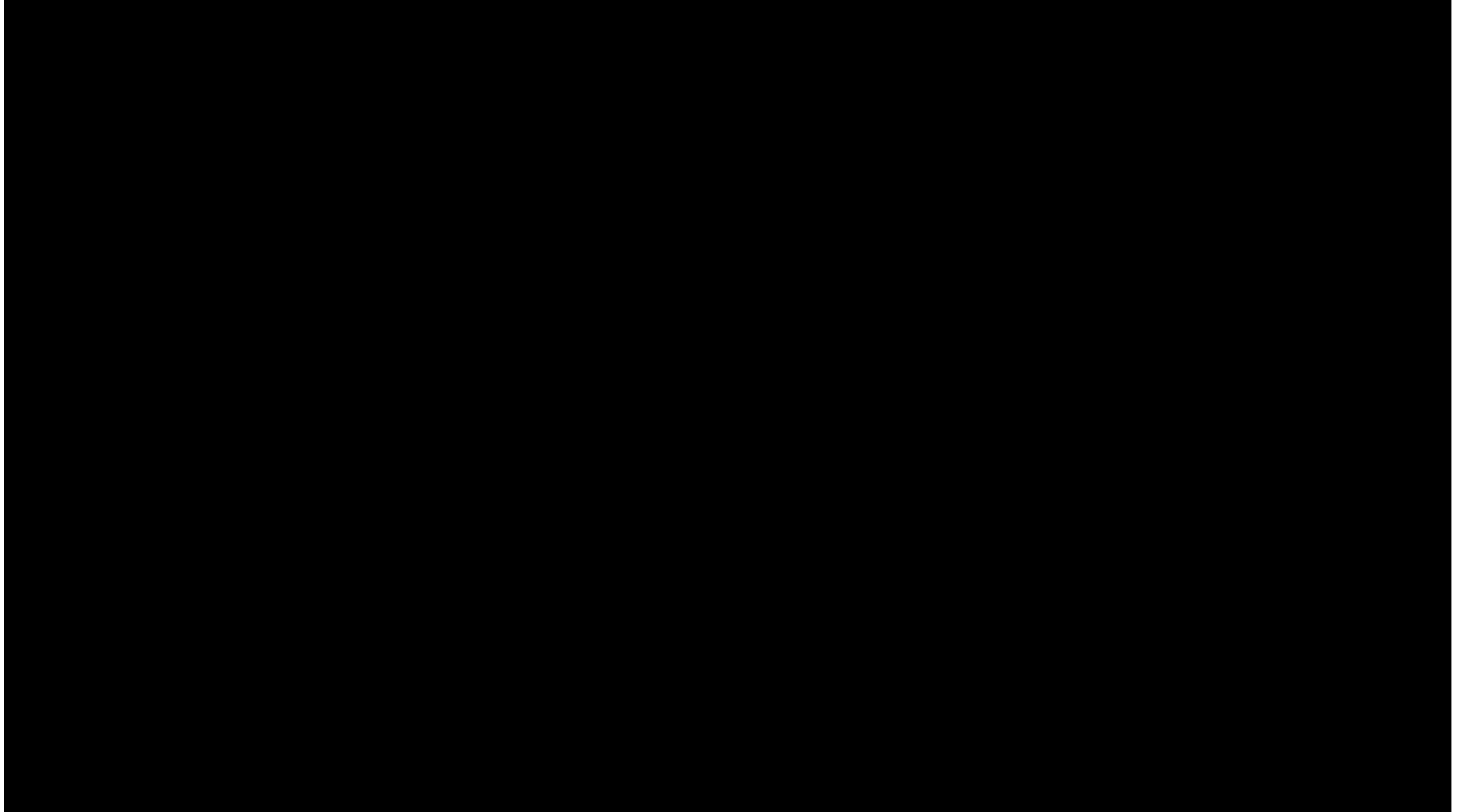


What is A Solar Eclipse??



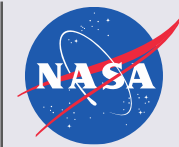
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Mars 2020 Project



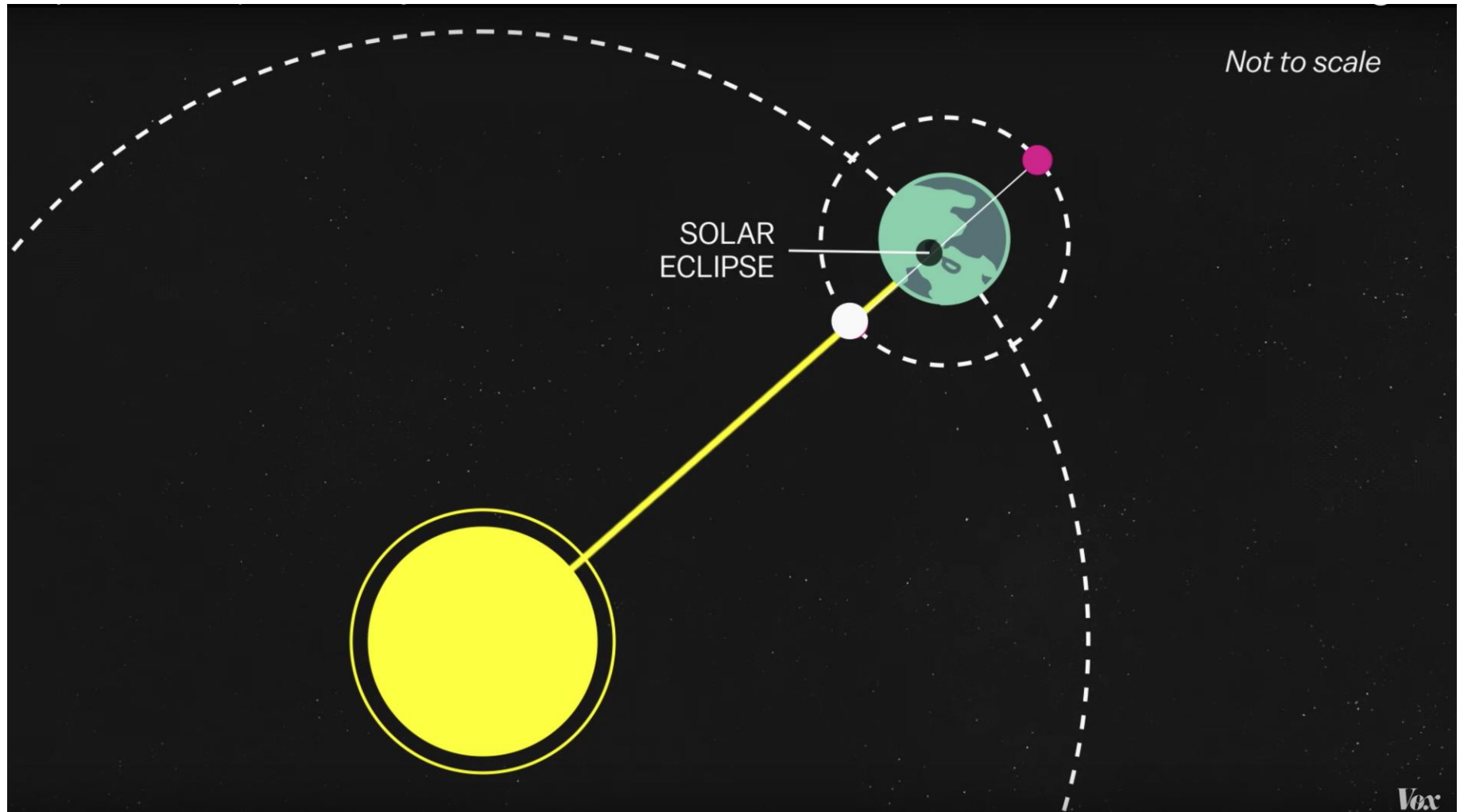
Source: https://www.youtube.com/watch?list=PL_qffRVV3oS0x3hALb5dQW5ZZPjDgwbKY&v=uMvhPUnWoc0

Solar Eclipse



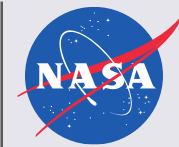
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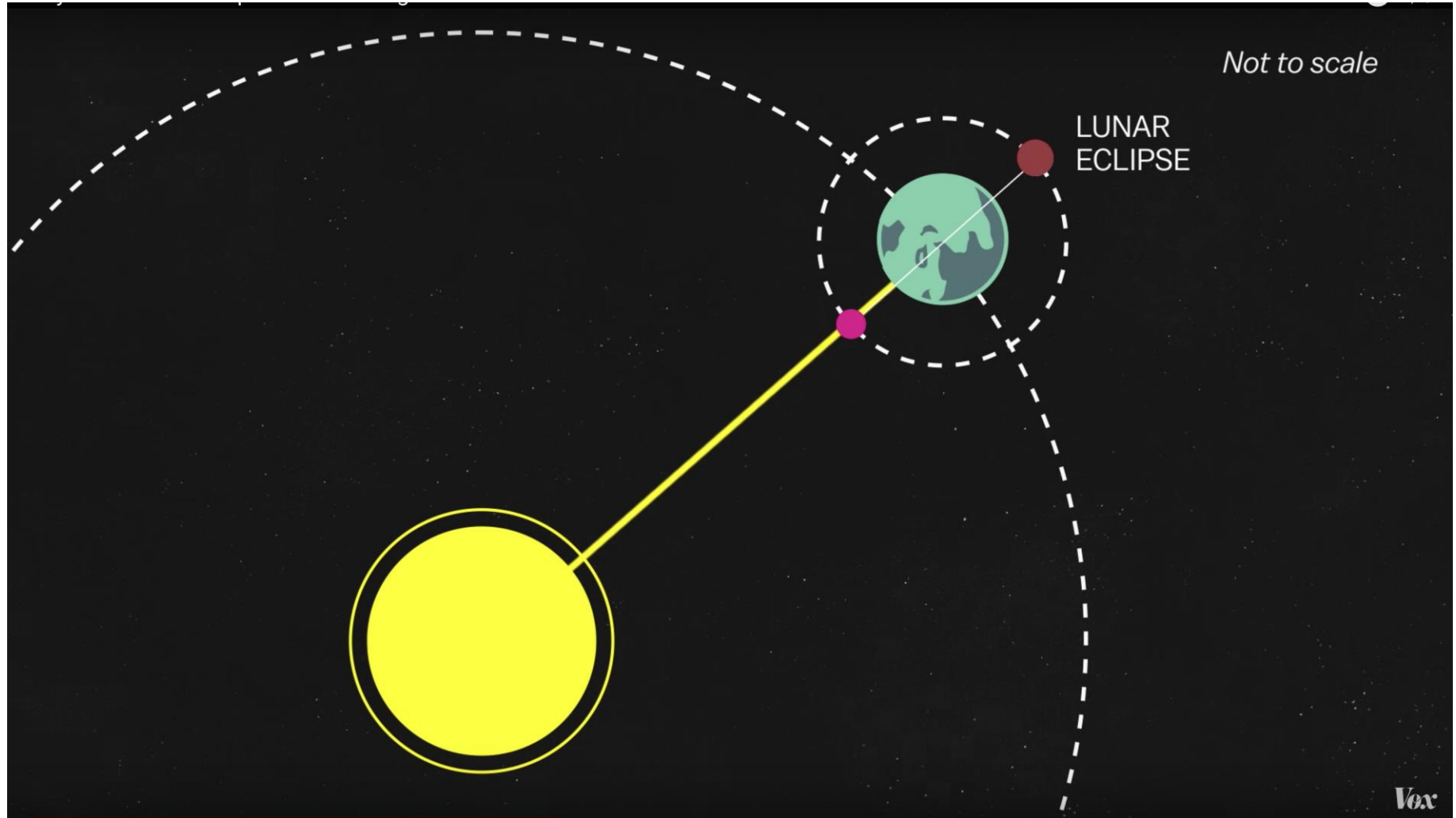
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Lunar Eclipse



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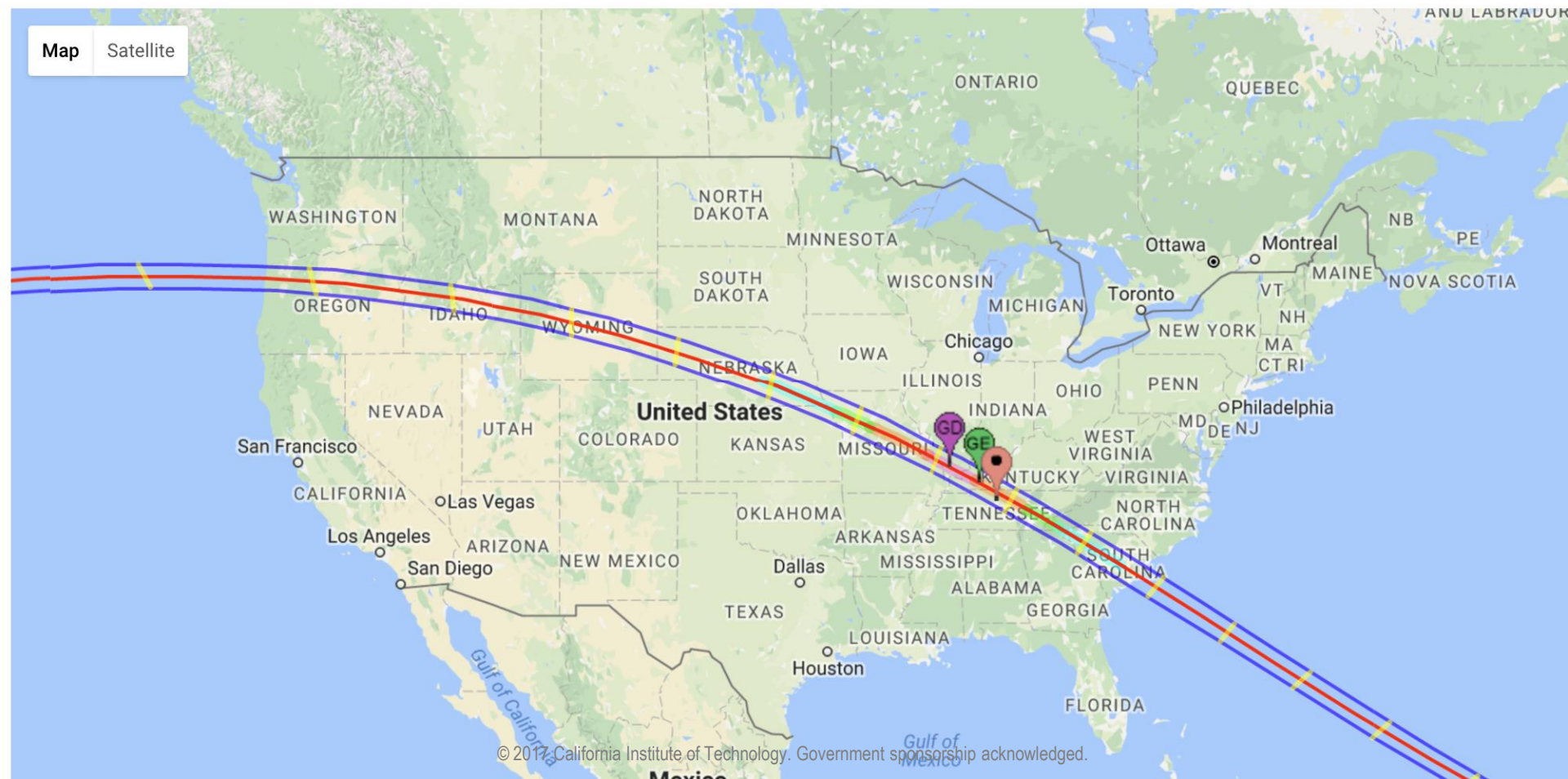
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Total Solar Eclipse Interactive Map

Interactive Map

Instruction



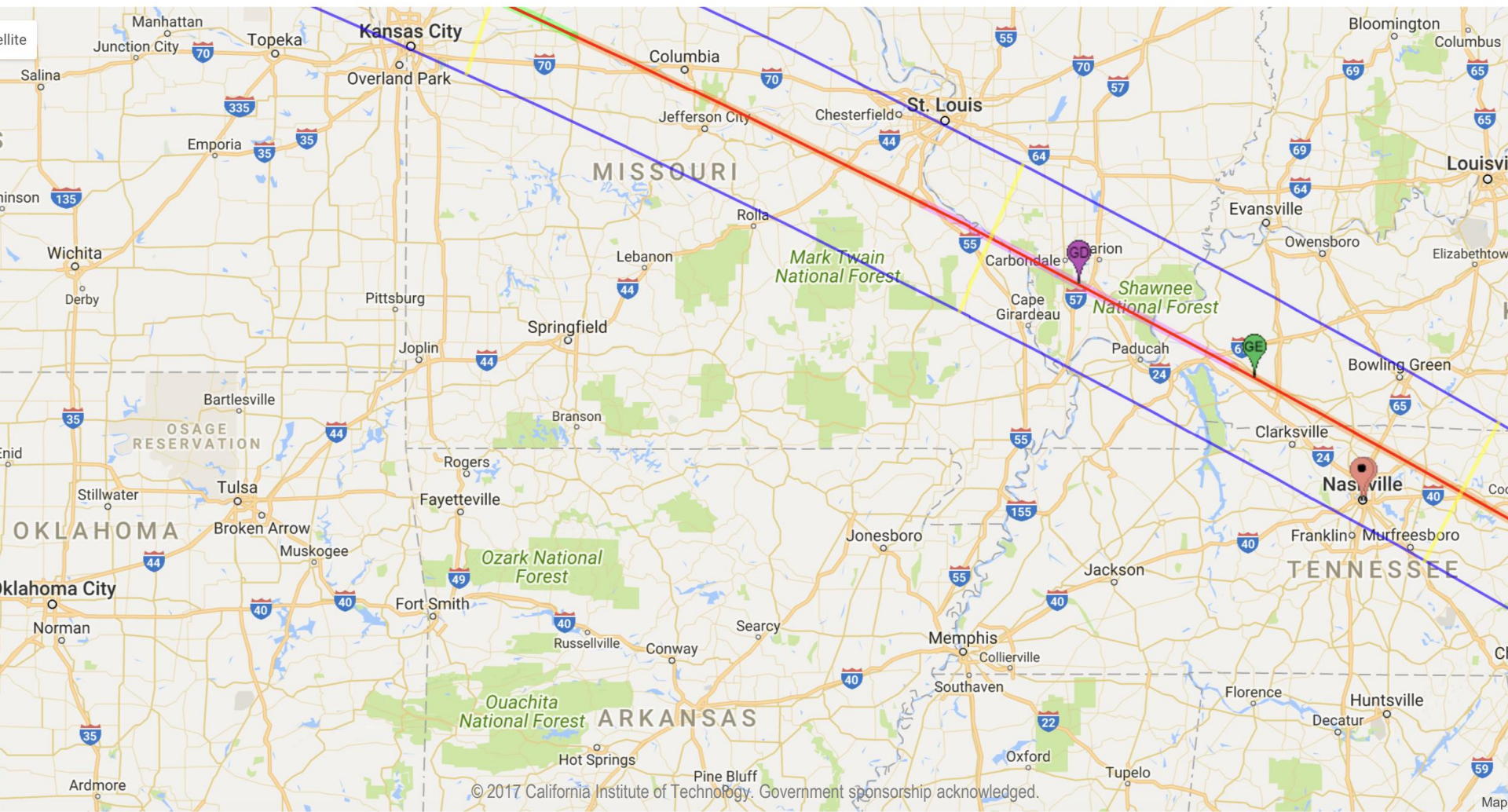


RETURN TO

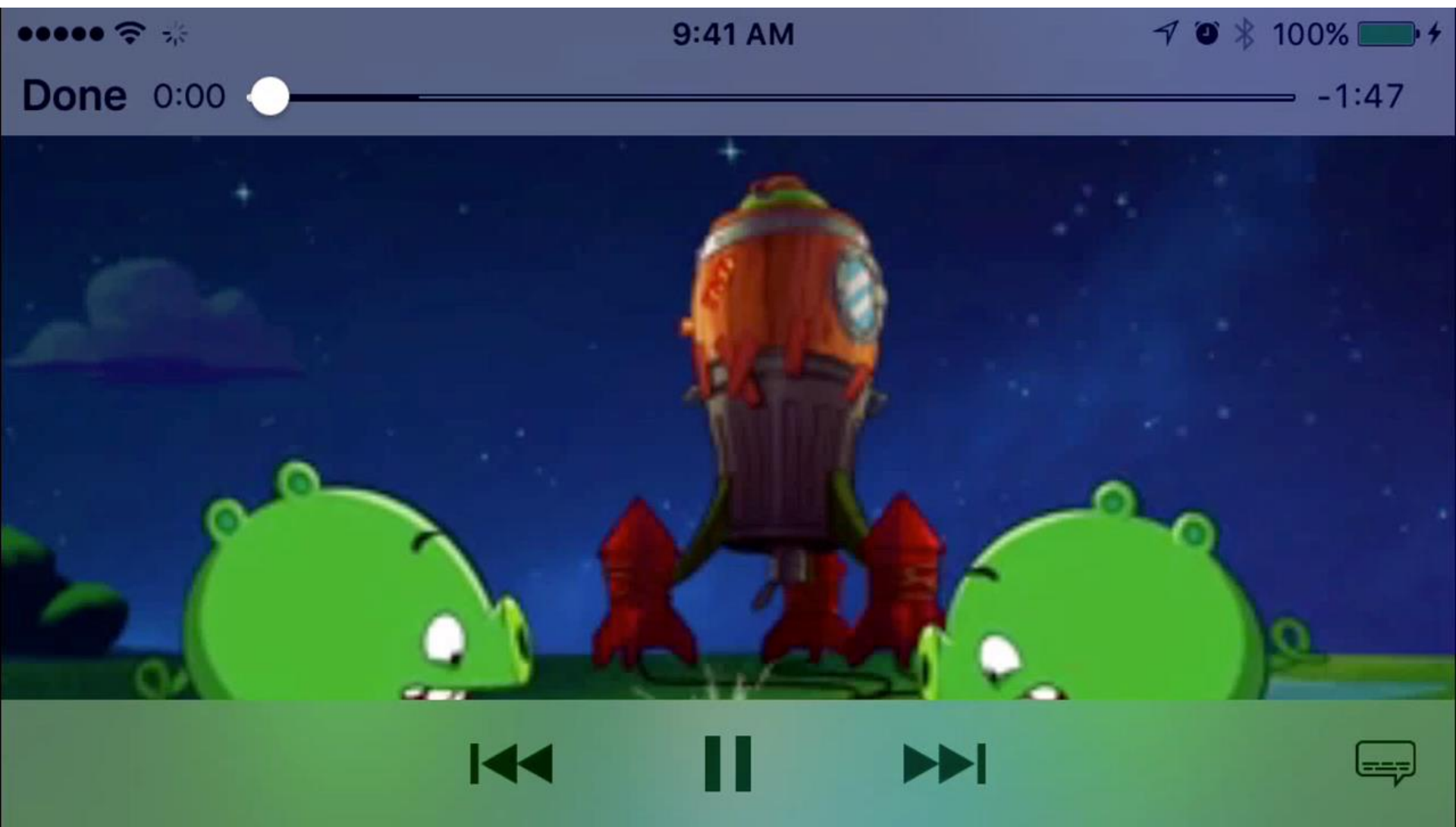
Total Solar Eclipse Interactive Map

Interactive Map

Instruction







Source: <https://www.youtube.com/watch?v=5ERPRHi7Zkk>

A Solar Eclipse on Mars!



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Mars' Moon, Phobos



Our Sun

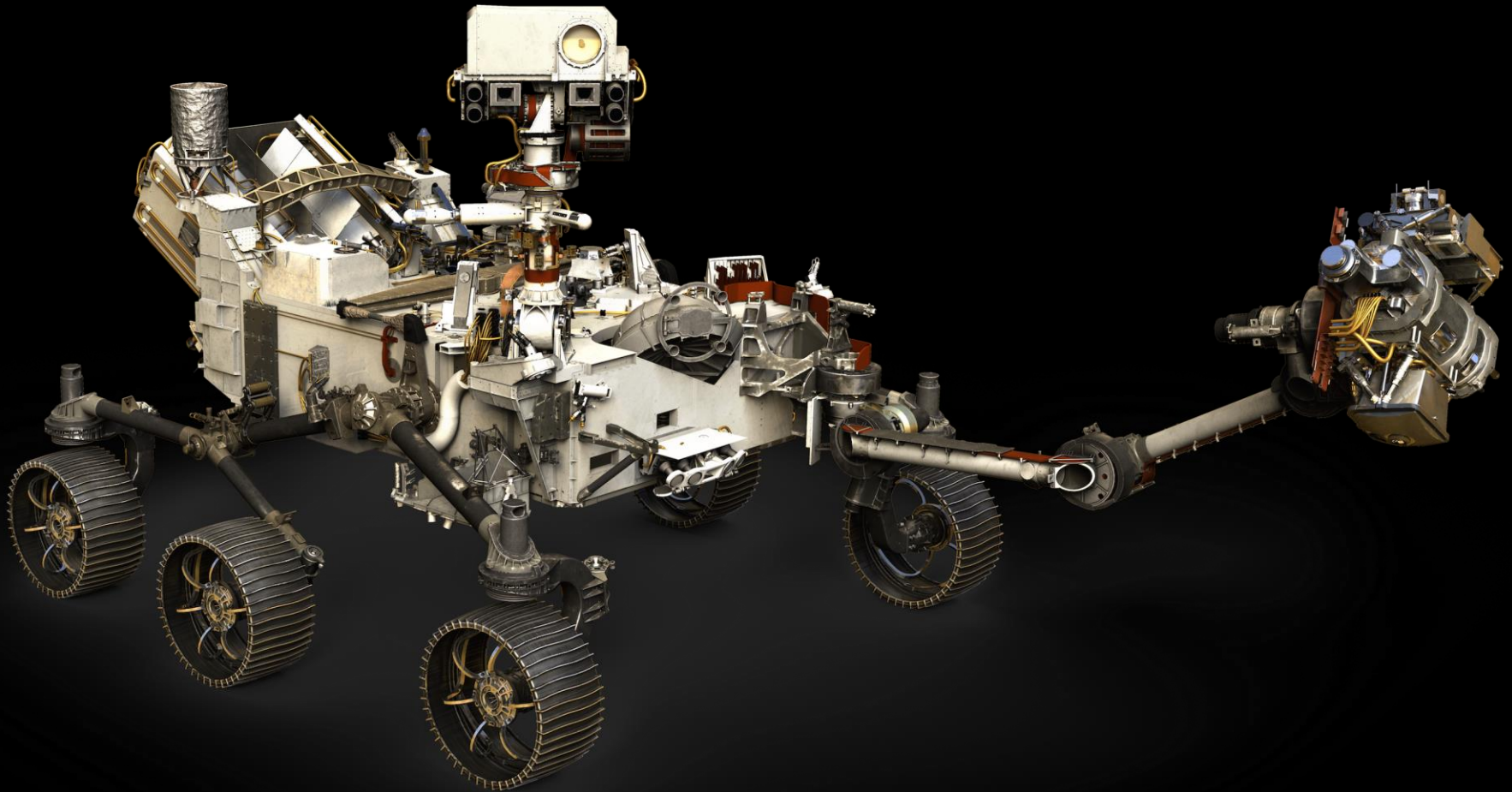


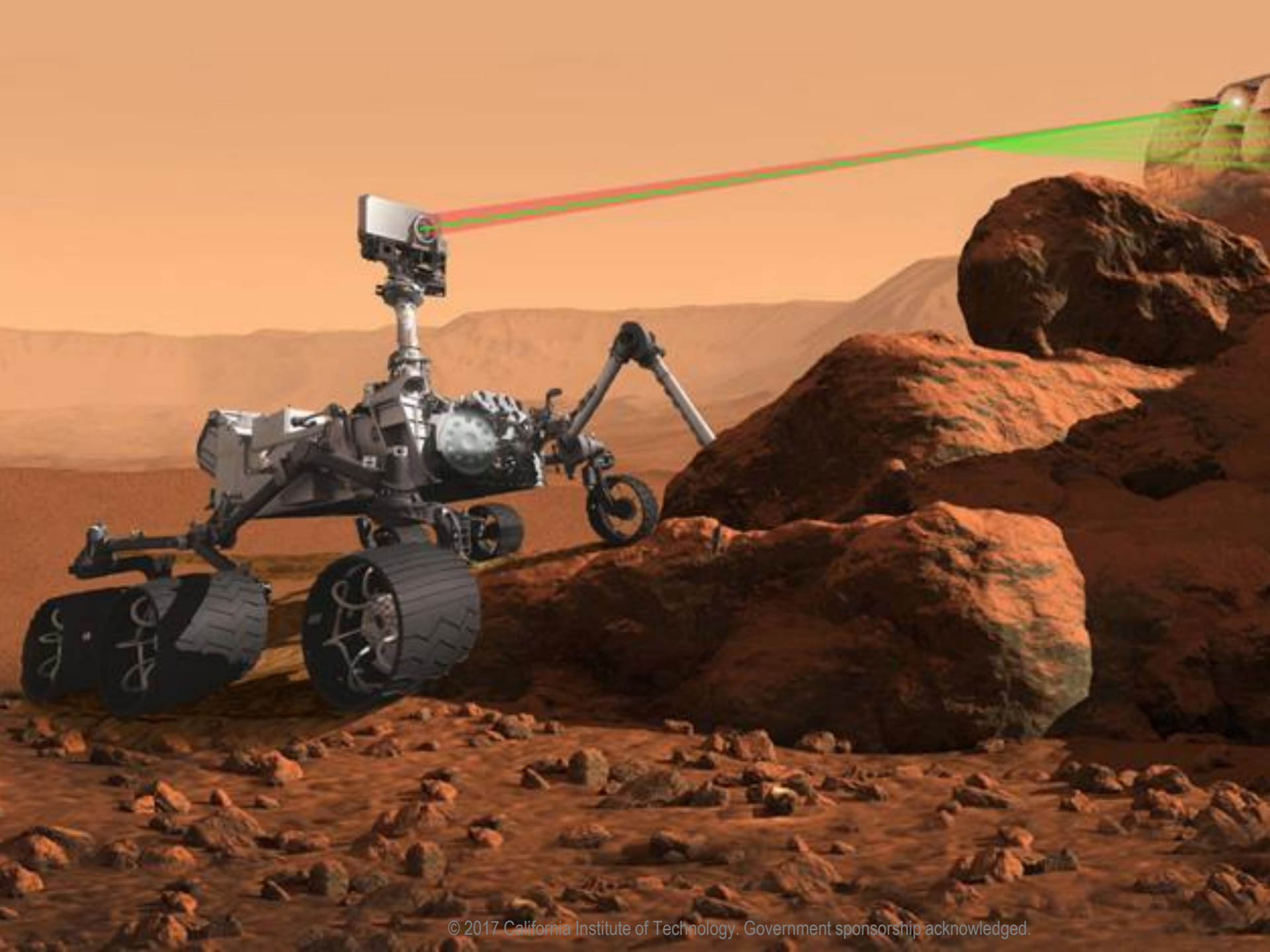
Image: NASA/JPL-Caltech/Malin Space Science Systems/Texas A&M Univ.

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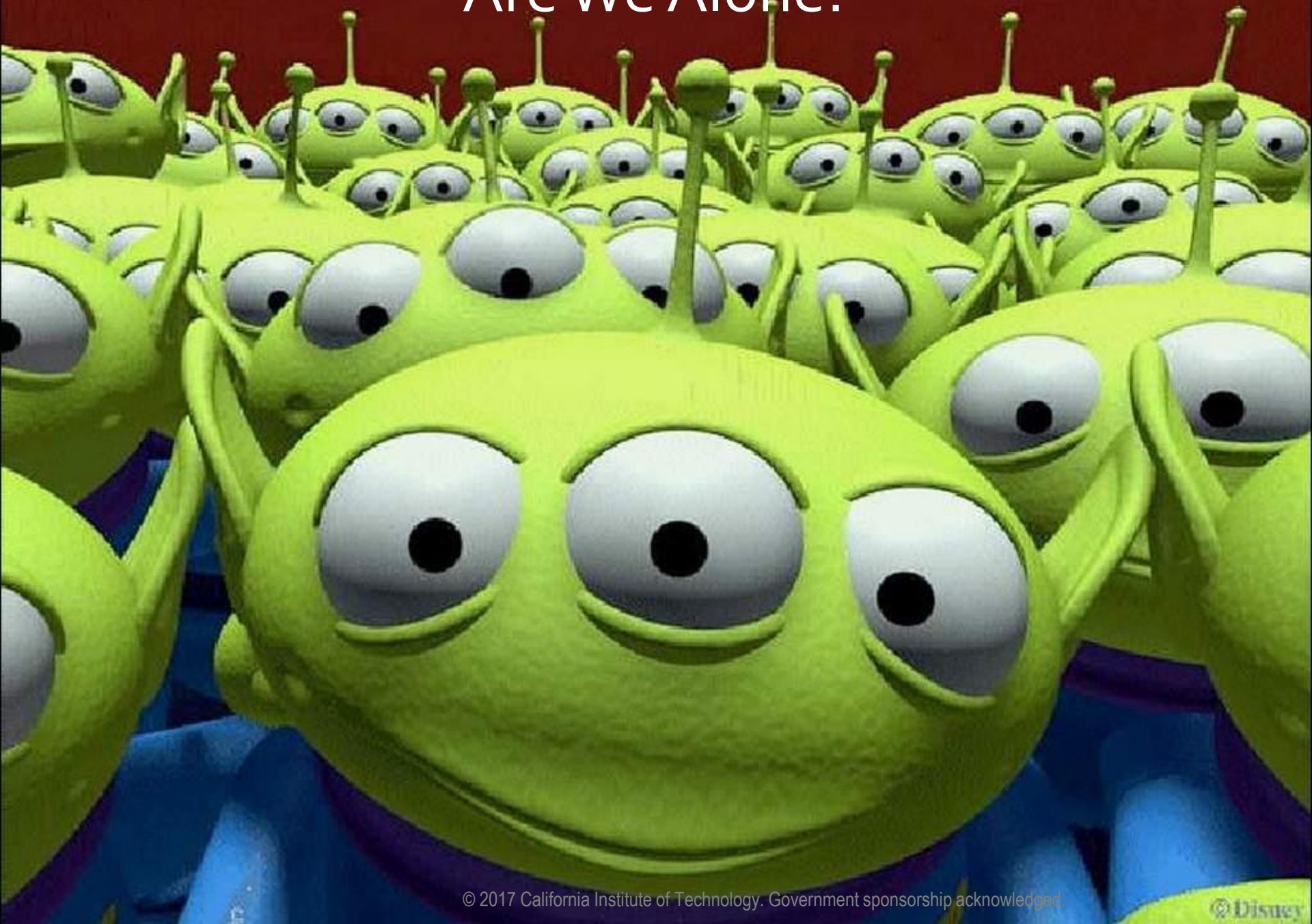
The Mars 2020 Rover:

Understanding the Possibilities for Life on Mars



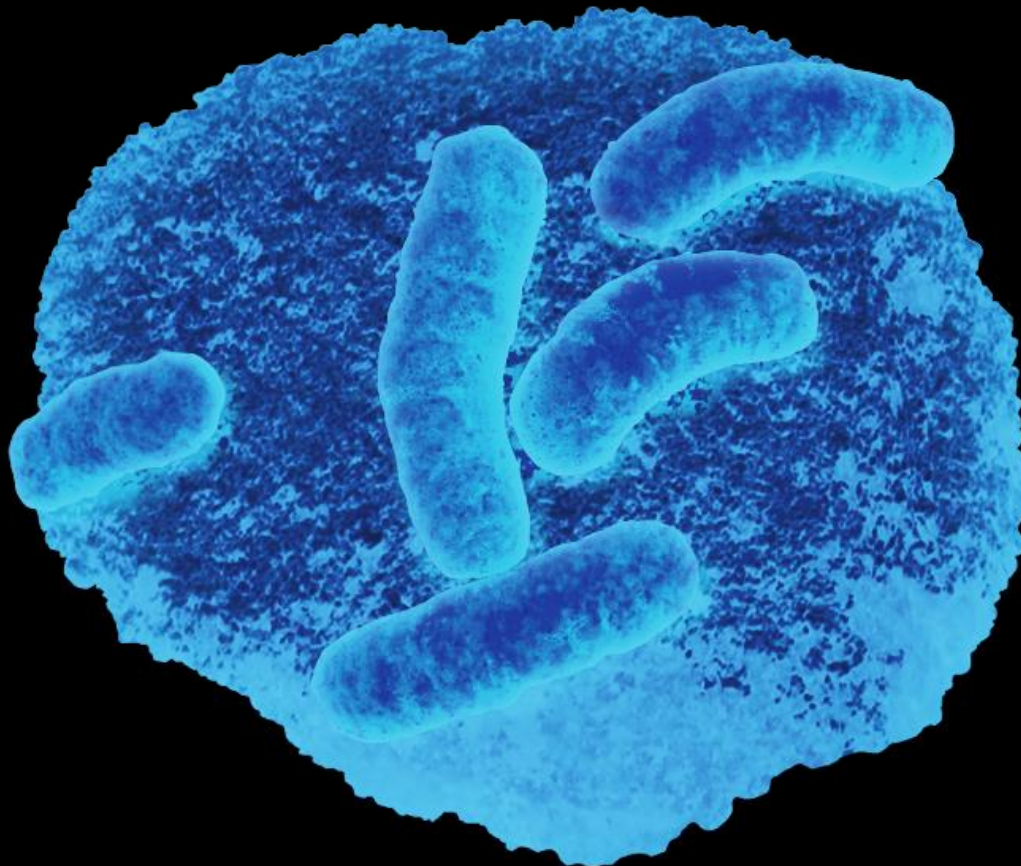


Are We Alone?



Biosignature (Sign of Life)

an object, substance, and/or pattern that can only be created by life-based processes



Mars 2020 Science Objectives

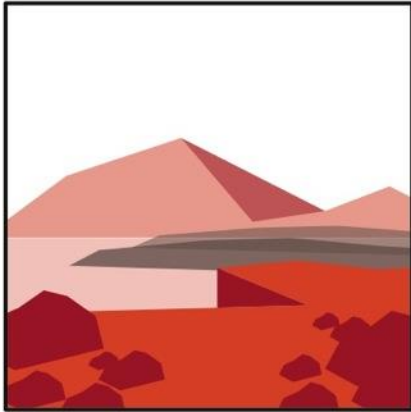
Understanding the Possibilities for Life on Mars

Ancient Microbial Life

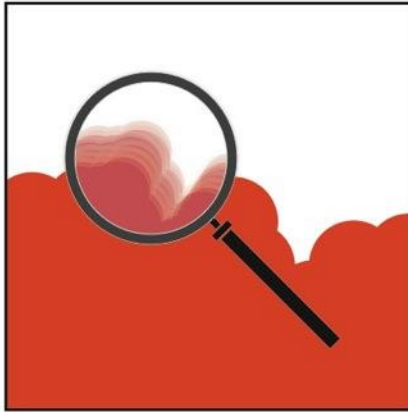


Human Life

**OBJECTIVE A:
Geology**



**OBJECTIVE B:
Astrobiology**

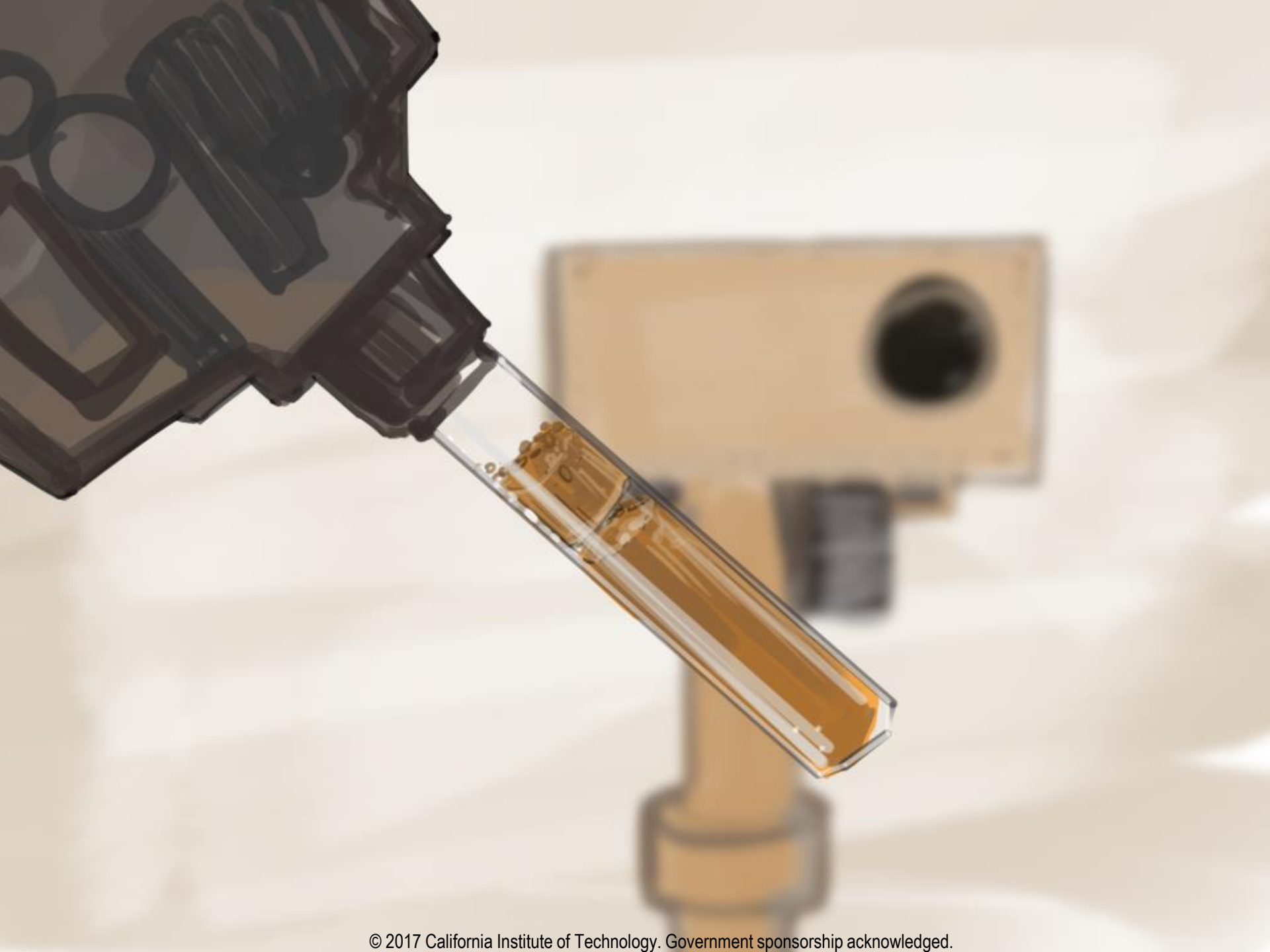


**OBJECTIVE C:
Sampling**



**OBJECTIVE D:
Prepare for Humans**







...MAYBE SOMEDAY...

One day this could be...YOU!!!!!!!!!!





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Stay Tuned!

<http://mars.nasa.gov/m2020>

#JOURNEYTOMARS

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- <http://www.planetary.org/get-involved/events/2017/2017-total-solar-eclipse.html>
- <https://spaceplace.nasa.gov/eclipses/en/>
- <http://gizmodo.com/four-breathtaking-solar-eclipses-you-can-see-from-other-1796642411>
- <https://www.nasa.gov/feature/jpl/for-moratorium-on-sending-commands-to-mars-blame-the-sun>
- <https://www.youtube.com/watch?v=oNH3akWXaV8>